

Datasheet: PBP034

BATCH NUMBER 164541

Description:	RECOMBINANT BOVINE INSULIN-LIKE GROWTH FACTOR I
Name:	IGF-I
Other names:	SOMATOMEDIN C
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	5 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Western Blotting	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Bovine
Product Form	Purified recombinant protein - lyophilized
Reconstitution	Reconstitute with 20 µl sterile PBS containing 0.1% carrier protein Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
Preparation	Recombinant protein expressed in <i>Pichia pastoris</i> and purified by ion-exchange chromatography
Source	<i>Pichia pastoris</i>
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	10% Trehalose

**External Database
Links**

UniProt:

[P07455](#)

[Related reagents](#)

Entrez Gene:

[281239](#)

IGF1

[Related reagents](#)

Product Information

Recombinant Bovine insulin-like growth factor I (IGF-I) is a recombinant protein corresponding to aa 50-119 of native bovine IGF-I.

IGF-I is a secreted mitogenic polypeptide and member of the insulin gene family, produced primarily by the liver, which effects a wide range of cells and plays a key role in cell proliferation and growth, inhibition of apoptosis, and is linked with tumor cell growth.

IGF-I signals by binding to the type 1 insulin-like growth factor receptor (IGF-IR) and also to the insulin receptor (IR), resulting in the activation of the AKT signaling pathway. IGF-I production is stimulated by growth hormone (GH) and can be hindered by GH insensitivity, deficiency in GH receptors or a malfunction in the post GH receptor signalling pathway.

**Protein Molecular
Weight**

7.6 kDa

Purity

>95% by SDS PAGE analysis

ELISA

This reagent may be used as a standard in a sandwich ELISA assay in conjunction with [AHP2372](#) as a coating antibody and [AHP2372B](#) as a detection antibody.

Storage

Prior to reconstitution store at -20°C.

After reconstitution store at -20°C.

Storage in frost-free freezers is not recommended. This product should be stored undiluted.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10591 available at:
<https://www.bio-rad-antibodies.com/SDS/PBP034>
10591

Regulatory

For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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